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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,952	07/10/2003	Paul Mark Haines	10011994-2	4485

7590 04/19/2005

HEWLETT-PACKARD COMPANY
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EXAMINER

NGUYEN, LAMSON D

ART UNIT	PAPER NUMBER
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2861

DATE MAILED: 04/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 10/617,952	Applicant(s) HAINES ET AL.	
Examiner Lamson D. Nguyen	Art Unit 2861	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on restriction election dated 12/22/04.
 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) See Continuation Sheet is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3, 5-7, 15, 16, 20, 22-27, 29-32, 40, 41 and 45-48 is/are rejected.
- 7) ☒ Claim(s) 9, 11-13, 18, 19, 34-38, 43 and 44 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date *02/14/05 and 05/17.*
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Continuation of Disposition of Claims: Claims pending in the application are 1,3,5-7,9,11-13,15,16,18-20,22-27,29-32,34,36-38,40,41 and 43-48.

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of species 5 in the reply filed on 12/22/04 is acknowledged.

Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 3, 5-7, 15, 16, 20, 22-27, 29-31, 40-41, and 45-48 are rejected under 35 U.S.C. 102(a) as being anticipated by Steven et al. (6,588,891).

Steven et al teach an inkjet filter comprising:

Claims 1, 25, 45:

- a filter material configured to attach to a pen, wherein a flow of ink through the filter material is substantially multidirectional (figure 2 teaches filter with two slanted filter mesh sheets meet at the tip, and wherein the flow of ink entering the filter and leaving the filter mesh in different directions through the two mesh sheets)

Claims 3, 27:

- the filter material comprises pores having a dimension less than a dimension of a smallest ink flow passage in the pen (figure 2 teaches filter meshes 13,

thus inherently having pores or openings that are small enough to prevent particles in the inflow to go through)

Claims 5, 22, 29:

- The filter comprises a chamber at least partially bounded by the filter material (figure 2 teaches filter chamber bounded by the two filter meshes 13)

Claims 6, 23, 30, 48:

- the flow of direction of ink into the chamber is different than a flow direction from the chamber (figure 2 teaches ink direction coming through the chamber is different from the direction the ink flow leaving the filter meshes)

Claims 7, 31, 47:

- the filter material comprises more than half a surface area of the chamber (figure 2 teaches filter meshes 13)

Claims 15, 40:

- the filter has a rectangular cross section (figure 2)

Claims 16, 41:

- the filter comprises a bag (figure 2 teaches two filter meshes 13 enclose to create a bag)

Claims 20-21, 26, 46:

- a filter comprising a filter material configured to attach to a pen, wherein an effective filtration surface area of the filter is substantially greater than any projection surface area of the filter (figure 2 teaches an effective filtration area which is the whole filtration area being larger than either area defined by each filter mesh 13)

Claim 24:

- an ink filter material configured to attach to a pen, and a chamber at least partially bounded by the filter material, wherein a flow direction of ink into the chamber is substantially different than a flow direction of ink from the chamber, wherein the filter material comprises more than half of a surface area of the chamber (figure 2 teaches ink filter; figure 2 teaches ink direction coming through the chamber is different from the direction the ink flow leaving the filter meshes 13)

Claim Rejections - 35 USC § 103

Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Steven in view of Otis, Jr. et al. (6,572,214).

Steven teaches all claimed features of the invention except:

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- a pressure regulator

It is well-known in the art of inkjet printers to utilize a pressure regulator (figure 3, regulator 30)

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Steven to incorporate the teaching of a voltage regulator taught by Otis for the purpose of regulating ink pressure.

Allowable Subject Matter


Claims 9, 11, 13, 18, 19, 34, 36, 37, 38, 43, and 44 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamson D. Nguyen whose telephone number is 571-272-2259. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Talbott can be reached on 571-272-1934. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



LAMSON NGUYEN
PRIMARY EXAMINER
04/18/25